PATENTS



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Shigeto Inui

Examiner:

unassigned

Serial No:

09/778,258

Art Unit:

unassigned

Filed:

February 7, 2001

Docket:

14309

For:

DIVIDER

Dated: May 10, 2001

Assistant Commissioner for Patents United States Patent and Trademark Office Washington, D.C. 20231

PETITION

Sir:

In reply to the Notice to File Corrected Application Papers, Applicant herewith submits the required page 13 of the specification, noting that this does not introduce new subject matter. According to our files, page 13 was deposited together with the application as filed.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on May 10, 2001

Dated: May 10, 2001

Michelle Mustafa

A Declaration of Janet Grossman, docketing clerk, and Anna Scheblein, legal secretary, at Scully, Scott, Murphy & Presser is enclosed together with a copy of our original transmittal letter, postcard receipt and New Patent Application Checklist indicating that 22 pages of specification, including claims and abstract were deposited on February 7, 2001.

Acceptance of page 13 is respectfully solicited. The required Petition Fee in the amount of \$130.00 is enclosed. Any additional fees should be charged to deposit account 19-1013 SSMP.

Respectfully submitted,

Paul J. Esatto, Jr.

Registration No.: 30,749

Scully, Scott, Murphy & Presser 400 Garden City Plaza Garden City, New York 11530 (516) 742-4343 PJE:ae of deta configurations of a repetitive operating section employed in the divider of Fig. 1;

- Fig. 3 is a graph showing a P-D plot expressing a division algorithm used in the divider of the embodiment of the present invention;
- Fig. 4 is a schematic block diagram showing one example of configurations of a conventional divider;
- Fig. 5 is a schematic circuit diagram showing one of examples of detailed configurations of a repetitive operating section employed in the conventional divider;
 - Fig. 6 is a graph showing a P-D plot expressing a conventional division algorithm; and
 - Fig. 7 is a graph showing another P-D plot explaining the conventional division algorithm.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Best modes of carrying out the present invention will be described in further detail using various embodiments with reference to the accompanying drawings.

Embodiment

Figure 1 is a schematic block diagram showing configurations
of a divider according to an embodiment of the present invention.
It is assumed in the embodiment that a radix for operations is
4, a digit set is {-3, -2, -1, 0, 1, 2, 3}, both a divisor and
a dividend are decimals with a bit length of n and a generalized
SRT division algorithm is used for operations. The divider of the

PATENT OFFICE DATE STAMP



KNOWLEDGE RECEIPT OF:

- 1. New Utility Patent Application Transmittal (in duplicate)
- 2. New Patent Application (22 pages including claims & Abstract)
- 3. 7 sheets of formal drawings
- 4. Assignment Recordal Sheet in duplicate; Orig. Assign.; Ck.\$40.00
- 5. Declaration and Power of Attorney
- 6. Claim of Priority (in due course)
- 7. Certificate of Express Mail #EL739620715US

Applicant: Shigeto INUI

For: DIVIDER
Docket: 14309
Dated: Feb.7 2001

PJE:ahs



PATENT OFFICE DATE STAMP WILL ACKNOWLEDGE RECEIPT OF:

- 1. New Utility Patent Application Transmittal (in duplicate)
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Applicant: Shigeto INUI

For: DIVIDER Docket: 14309

Dated: Feb.7 2001

PJE:ahs

jc929 U.S. PTO 09/778258

02/07/01

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

Docket No. 14309

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Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTS

	13		Box Patent Application Washington, D.C. 20231				
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Which			Description in part (CID) of prior application No.				
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			tion Divisional Continuation-in-part (CIP) of prior application No.:				
Enclo	sed a	re:	Application Elements				
1.	X	Filin	ng fee as calculated and transmitted as described below				
2.	2. Specification having 22 pages and including the following:						
	a.	X	Descriptive Title of the Invention				
	b.		Cross References to Related Applications (if applicable)				
	C.	c. Statement Regarding Federally-sponsored Research/Development (if applicable)					
	d.		Reference to Microfiche Appendix (if applicable)				
	e. 🗷 Background of the Invention						
f. 🗷 Brief Summary of the Invention							
	g. 🗷 Brief Description of the Drawings (if drawings filed)						
	h.	X	Detailed Description				
	i. 🗷 Claim(s) as Classified Below						
	j.	X	Abstract of the Disclosure				

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 14309

Total Pages in this Submission

Application Elements (Continued)

3.	X	Drawing(s) (when necessary as prescribed by 35 USC 113)
	a.	Formal Number of Sheets7
	b.	☐ Informal Number of Sheets
4.	X	Oath or Declaration
	a.	Newly executed (original or copy)
	b.	Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
	C.	With Power of Attorney ☐ Without Power of Attorney
	d.	DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5.		Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6.		Computer Program in Microfiche (Appendix)
7.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
	a.	☐ Paper Copy
	b.	☐ Computer Readable Copy (identical to computer copy)
	C.	☐ Statement Verifying Identical Paper and Computer Readable Copy
		Accompanying Application Parts
8.	X	Assignment Papers (cover sheet & document(s))
9.		37 CFR 3.73(B) Statement (when there is an assignee)
10.		English Translation Document (if applicable)
11.		Information Disclosure Statement/PTO-1449 Copies of IDS Citations
12.		Preliminary Amendment
13.	X	Acknowledgment postcard
14.	X	Certificate of Mailing
		☐ First Class ☑ Express Mail (Specify Label No.): EL739620715 US

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 14309

Total Pages in this Submission
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Accompanying Application Parts (Continued)

		, , , , , , , , , , , , , , , , , , , ,		
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)		
16.	X	Additional Enclosures (please identify below):		
		Assignee: NEC Corporation Assignee Residence: Tokyo, Japan		
		Claim of Priority (in due course)		
		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)		
17.		Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.		
		Warning		
		An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.		
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UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 14309

Total Pages in this Submission
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Fee Calculation and Transmittal

CLAIMS AS FILED #Filed #Allowed #Extra Rate Fee For \$0.00 - 20 = 0 \$18.00 4 х **Total Claims** \$0.00 \$80.00 2 - 3 = 0 Indep. Claims \$0.00 Multiple Dependent Claims (check if applicable) \$710.00 **BASIC FEE** \$0.00 OTHER FEE (specify purpose) \$710.00 TOTAL FILING FEE to cover the filing fee is enclosed. \$710.00 A check in the amount of The Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/ssmp as described below. A duplicate copy of this sheet is enclosed. Charge the amount of as filing fee. Credit any overpayment. Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17. ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b). Signature Paul J. Esatto, Jr.

Dated: February 7, 2001

Reg. No. 30,749 SCULLY, SCOTT, MURPHY & PRESSER 400 Garden City Plaza Garden City, NY 11 530

PJE:ahs

		MAIL" (37 CFR 1.10)	Docket No.		
olicant(s): Shigeto INUI	/01	76	14309		
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hereby certify that the fol	lowing correspondence:				
New U.S. Patent Applic	ation				
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14309/als

YES	NO	DOCUMENT	COMMENTS
		Specification to include claims and abstract If non-English spec, don't forget fee.	22
V		New Patent Application Transmittal Sheet in duplicate If Multiple Claims, be sure to check box.	1/2
ů.		Certificate of Express Mail	EL73963.0741
V		Drawings - Formal or informal - MUST HAVE LABELS ON BACK	7 shorts
V		Executed Declaration and Power of Attorney If no Declaration being sent - must list all inventors on transmittal sheet.	
V		Executed Assignment with Recordal Cover Sheet	aylek,
./		Claim of Priority in due Ceruse	2000 - 029524
	V	Small Entity? Need verified statement claiming so.	
		Associate Power of Attorney	
X		Information Disclosure Statement with copies of cited references	
		Check or Deposit Account Authorization	910-
./		Postcard	-
<i>i/</i>		Dispatch Sheet	